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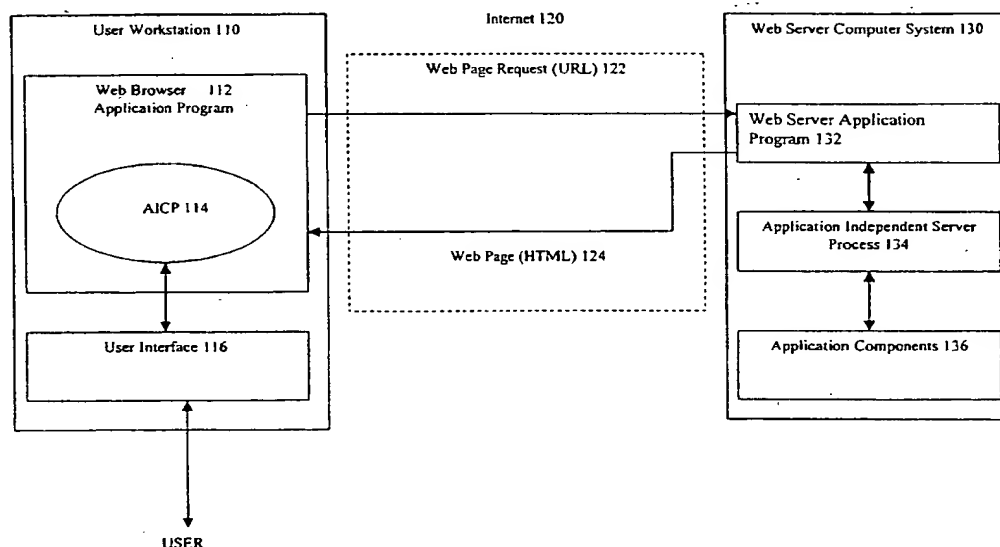
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(54) Title: METHODS AND APPARATUS FOR EFFICIENTLY TRANSMITTING INTERACTIVE APPLICATION DATA BETWEEN A CLIENT AND SERVER USING MARKUP LANGUAGE



(57) Abstract: A method for efficiently transferring data between a client and a server includes the steps of: providing an application program; providing an application-independent client process effecting a plurality of client states; providing an application-independent server process effecting a plurality of server states; transferring data from the server process to the client process in response to an application program; and updating at least one client state in response to the transferred data. A related apparatus is also disclosed.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F9/44 G06F9/54 G06F9/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	<p>WO 97 28623 A (GOLAN GILAD ;ZANGVIL ARNON (IL); ZANGVIL AVNER (IL); MENTA SOFTWARE) 7 August 1997 (1997-08-07)</p> <p>abstract page 5, line 1 -page 3, line 30 page 8, line 5 - line 26 page 14, line 12 -page 16, line 30 --- -/--</p>	<p>1-3,7,8, 12-14, 18,19, 23,24, 27,31, 32,35 5,9,16, 20,25, 28,33, 35,36</p>

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 5 537 548 A (FIN TONG-HAING ET AL) 16 July 1996 (1996-07-16) abstract column 2, line 11 - line 36 column 3, line 9 -column 5, line 33 ---	1-3,7,8, 12-14, 18,19, 23,24, 27,31, 32,35 5,9,16, 20,25, 28,33, 35,36
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X A	EP 0 878 759 A (IBM) 18 November 1998 (1998-11-18) abstract column 1, line 2 - line 6 column 2, line 35 -column 4, line 30 column 9, line 54 -column 10, line 15 column 10, line 42 -column 11, line 50 -----	1-3,7,8, 12-14, 18,19, 23,24, 27,31, 32,35 5,9,16, 20,25, 28,33, 35,36

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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